

**OPERATION AND MAINTENANCE
TERMINAL STATION
1 X N FREQUENCY DIVERSITY
DR 6/11-135A
TWT AMPLIFIER**

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1. GENERAL

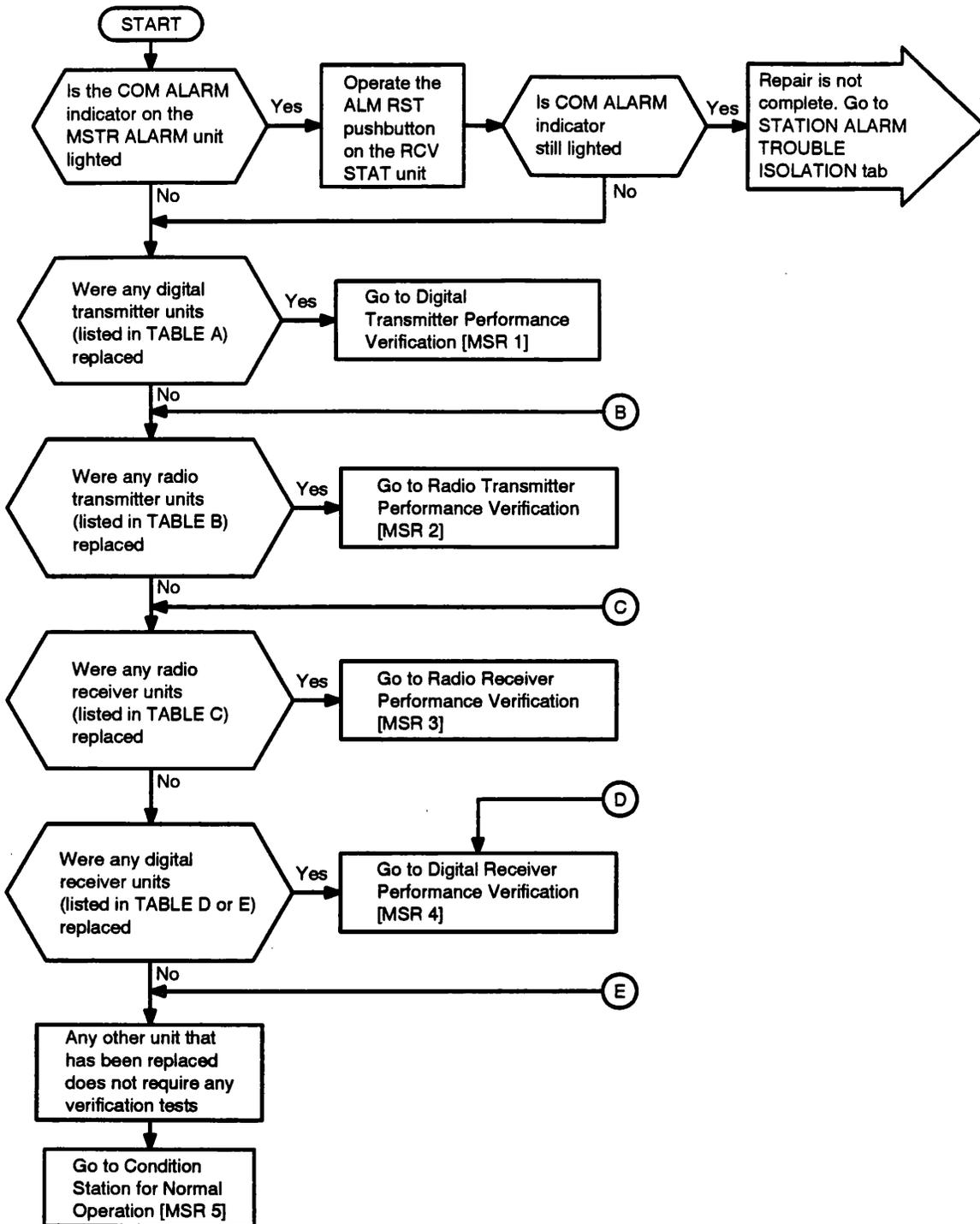
Repair verification is always the last procedure performed by the technician before leaving the station. This practice is used to verify that the equipment repair is complete, no alarms are present, and the system requirements are met.

The following logic diagrams reference tests which verify that the repair is complete. When the requirements for all of the referenced tests are met, the equipment is repaired and ready for service. The tests can be found under the " Tests and Adjustments" tab.

If referenced test requirements are not met, corrective action must be taken to clear any equipment alarms. If there are no equipment alarm indications, report the nature of the trouble to the technical support group for further instructions.

1.1 UPDATE INFORMATION

This practice is being reissued to reflect recent changes in the overall documentation. The subroutines have been incorporated into the main routines to condense the documentation and simplify the procedures. Most of the flowcharts in this practice have been changed to reflect these changes.



MR 1—Station Repair Verification (Sheet 1 of 2)

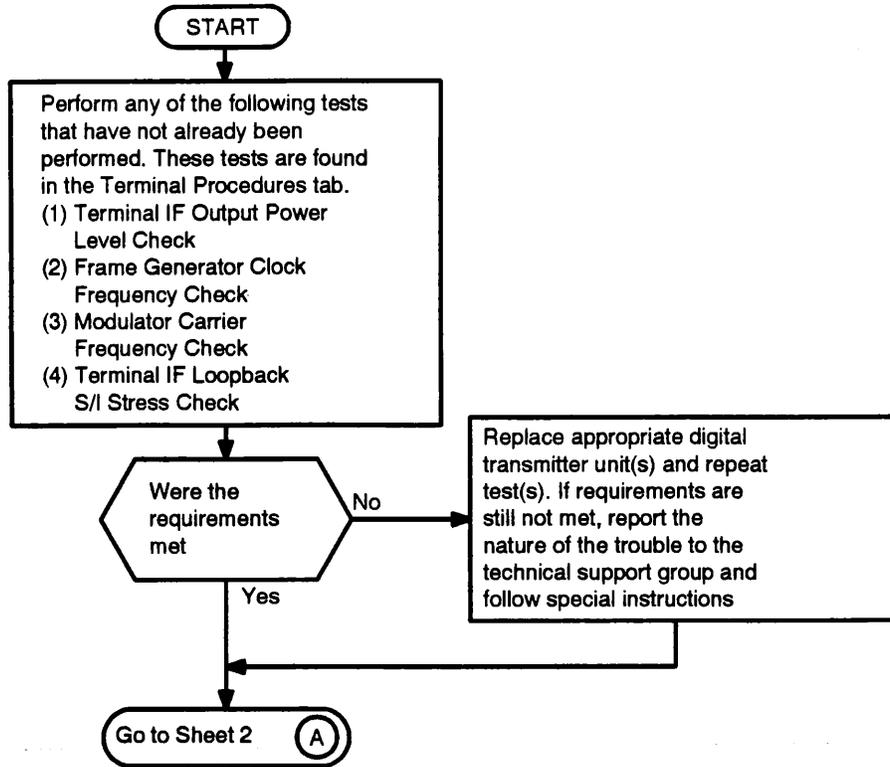
TABLE A
TERMINAL TRANSMITTER CIRCUITS AFFECTING SYSTEM REQUIREMENTS
B3ZS DCODR FRAME GEN LINE SELR CRC CODER D/A CONVR TRMT FLT 64QAM MOD

TABLE C
RADIO RECEIVER CIRCUITS AFFECTING SYSTEM REQUIREMENTS
RF PREAMPLIFIER RECEIVER DOWN CONV & MWV GEN LINEAR DELAY EQUALIZER IF COMBINER IF FILTER AND BASIC EQUALIZER IF AGC AMPL ADAPTIVE SLOPE EQL

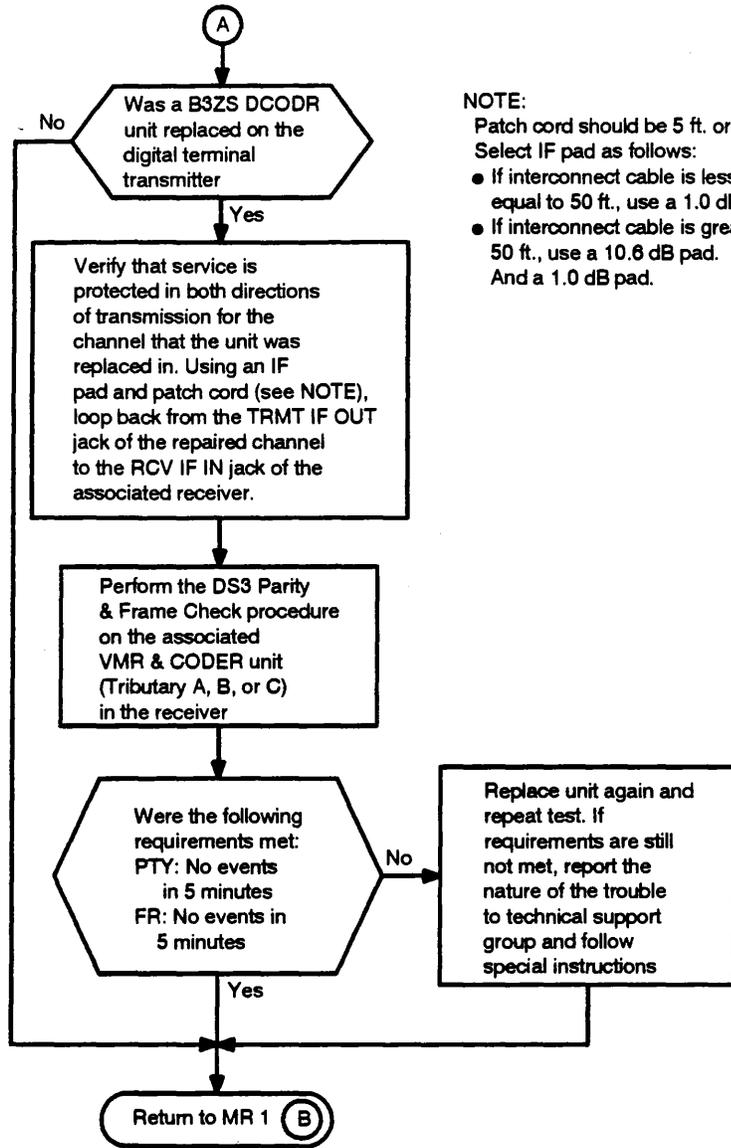
TABLE B
RADIO TRANSMITTER CIRCUITS AFFECTING SYSTEM REQUIREMENTS
IF PREDISTORTER TRANSMITTER UP CONV & MWV GEN TWT AMPLIFIER TWT POWER SUPPLY ALC NETWORK

TABLE D
TERMINAL RECEIVER CIRCUITS AFFECTING SYSTEM REQUIREMENTS
64QAM DEMOD 64QAM DECSN TRNSV FLT CRLTR RCV FLT TERM FRMR LINE SW LINE ALNMT FRAME RMVR VMR & CODER

PREREQUISITE: There are no terminal transmitter alarms.



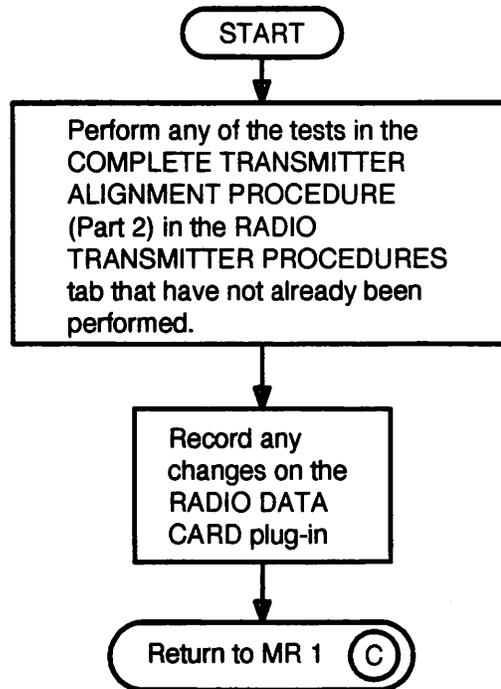
MSR 1—Digital Transmitter Performance Verification (Sheet 1 of 2)



NOTE:
Patch cord should be 5 ft. or less.
Select IF pad as follows:
● If interconnect cable is less than or equal to 50 ft., use a 1.0 dB pad.
● If interconnect cable is greater than 50 ft., use a 10.6 dB pad.
And a 1.0 dB pad.

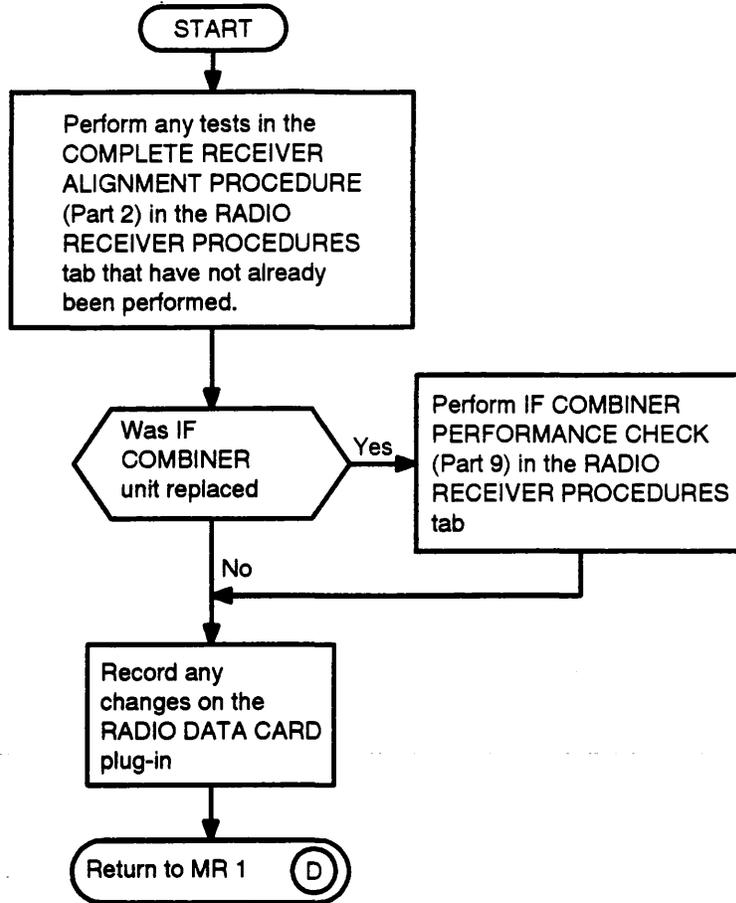
MSR 1—Digital Transmitter Performance Verification (Sheet 2 of 2)

PREREQUISITE: There are no radio transmitter alarms.

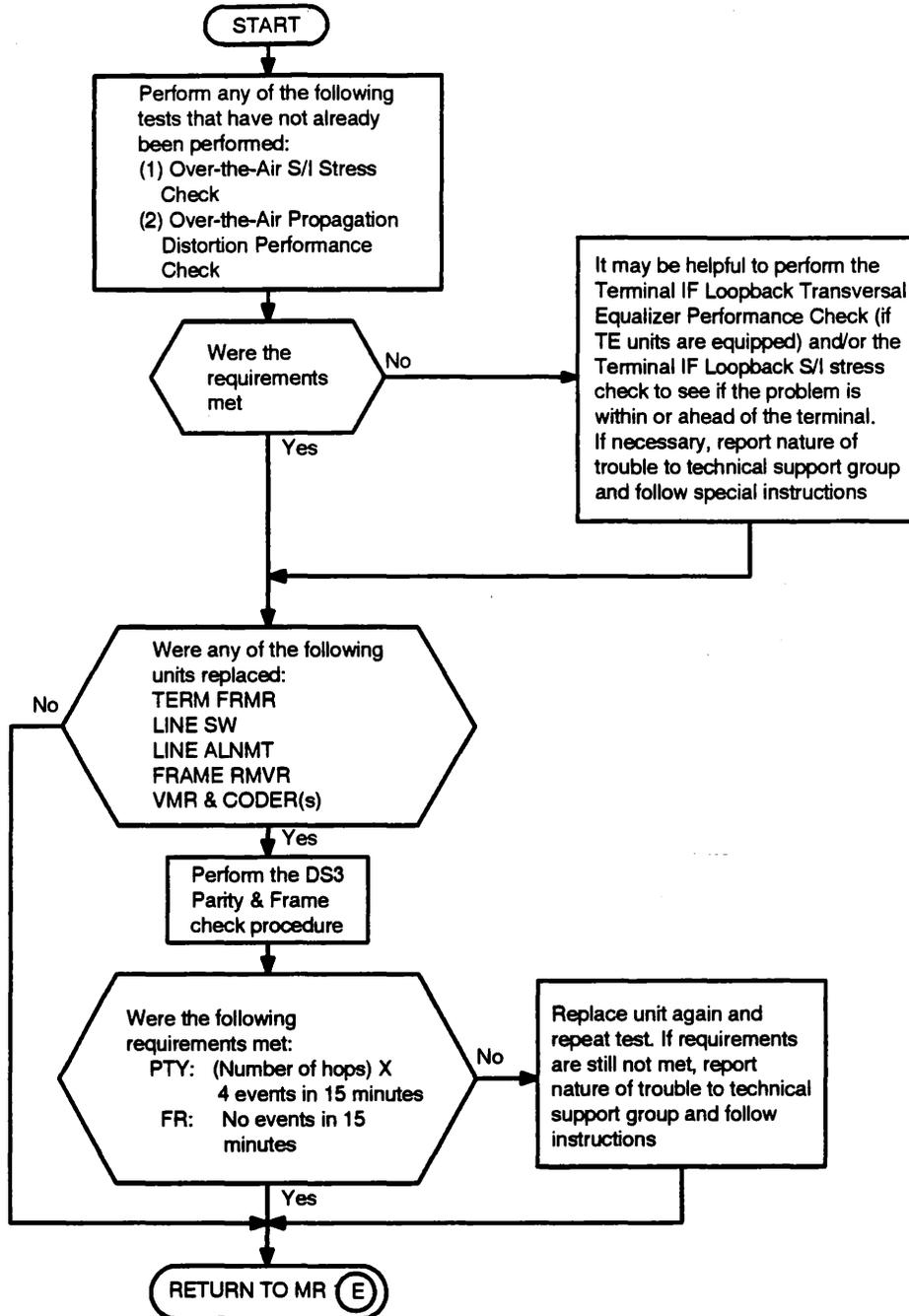


MSR 2—Radio Transmitter Performance Verification

PREREQUISITE: There are no radio receiver alarms.

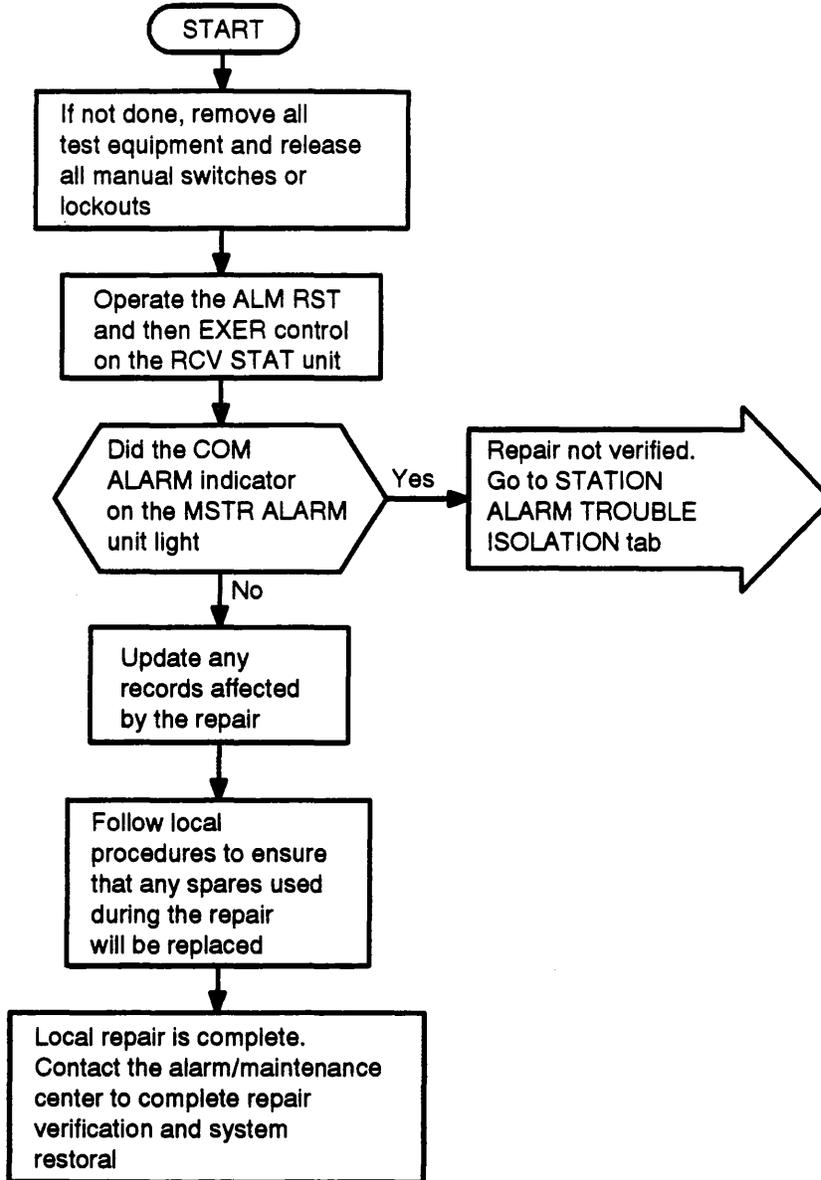


MSR 3— Radio Receiver Performance Verification



MSR 4—Digital Receiver Performance Verification

PREREQUISITE: All station alarms are clear.



MSR 5—Condition Station for Normal Operation